

VMG8924-B10A

Standard Version

Firmware Release Note

V1.00(AAKL.7)K0

Date: Dec, 12, 2014
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Revision History

Date	Release	Author	Description
2013/04/29	1.0	Wood Huang	FW release for V1.00(AAKL.0)b1
2013/05/10	1.0	Wood Huang	FW release for V1.00(AAKL.0)b2
2013/05/29	1.0	Wood Huang	FW release for V1.00(AAKL.0)C0
2013/07/30	2.0	Wood Huang	FW release for V1.00(AAKL.1)b1
2013/08/20	2.1	Wood Huang	FW release for V1.00(AAKL.1)b2
2013/10/16	3.0	Wood Huang	FW release for V1.00(AAKL.2)b1
2013/11/27	4.0	Wood Huang	FW release for V1.00(AAKL.3)b1
2014/01/02	5.0	Cj Lai	FW release for V1.00(AAKL.3)b2
2014/02/14	6.0	Cj Lai	FW release for V1.00(AAKL.3)b3
2014/03/10	7.0	Cj Lai	FW release for V1.00(AAKL.3)C0
2014/03/10	8.0	Cj Lai	FW release for V1.00(AAKL.4)b1
2014/03/27	9.0	Cj Lai	FW release for V1.00(AAKL.4)b2
2014/04/08	10.0	Cj Lai	FW release for V1.00(AAKL.4)b3
2014/04/23	11.0	Cj Lai	FW release for V1.00(AAKL.4)C0
2014/04/24	12.0	Wood Huang	FW release for V1.00(AAKL.5)b1
2014/05/20	12.1	Wood Huang	FW release for V1.00(AAKL.5)b2
2014/05/29	12.2	Cj Lai	FW release for V1.00(AAKL.5)b3
2014/06/11	12.3	Wood Huang	FW release for V1.00(AAKL.5)b4
2014/07/11	12.4	Wood Huang	FW release for V1.00(AAKL.5)b5
2014/07/21	13.0	Wood Huang	FW release for V1.00(AAKL.5)C0
2014/07/22	13.0	Wood Huang	FW release for V1.00(AAKL.5)K0
2014/09/24	13.0	Wood Huang	FW release for V1.00(AAKL.5)K1
2014/11/20	14.0	Wood Huang	FW release for V1.00(AAKL.6)K0
2014/12/12	15.0	Wood Huang	FW release for V1.00(AAKL.7)K0



ZyXEL VMG8924-B10A V1.00(AAKL.7)K0 Release Note

Date: Dec. 12, 2014

Supported Platforms:

ZyXEL VMG8924-B10A & VMG8324-B10A

Versions:

Bootbase version: V1.65 | 06/24/2014 16:23:59

Firmware version: V1.00(AAKL.7)

Kernel version: 2.6.30

DSL mode code version: A2pv6F039i

DSL driver version: d24e

WLAN code version: 6.30.163.23.cpe4.12L06B.1

Voice code version: 4.12L.06 May 11 2012 11:58:17 IPTK 8.2.2

3G dongle WWAN package version: V1.07

APP agent version : 1.0.1

Notes:

1. QoS Monitor will show only if QoS software Queue is used.
Qos software queue is created if rate limit or WFQ is configured.
2. 802.11ac is supported with 4360 WLAN adaptor (VMG8924-B10A model).
3. WPS lock down: 10 failures in 300 seconds.

Modifications in V1.00(AAKL.7)K0

1. Base on V1.00(AAKL.7)C0 to release V1.00(AAKL.7)K0

Modifications in V1.00(AAKL.6)K0

1. Base on V1.00(AAKL.5)K1 to release V1.00(AAKL.6)K0
2. [ROM FILE][ITS# 141001109] Default setting Time Zone: Should be set to (GMT+02:00) Pretoria(South Africa).
3. [ROM FILE][ITS# 141000511] VDSL password is incorrect.

Modifications in V1.00(AAKL.5)K1

1. Base on V1.00(AAKL.5)K0 to release V1.00(AAKL.5)K1
2. Change ROM file for customer's request.

Modifications in V1.00(AAKL.5)K0

1. Base on V1.00(AAKL.5)C0 to release V1.00(AAKL.5)K0
2. Change ROM file for customer's request.

Modifications in V1.00(AAKL.5)C0

Base on V1.00(AAKL.5)b5 to release V1.00(AAKL.5)C0

Modifications in V1.00(AAKL.5)b5

[FEATURE ENHANCED]

1. [Static DHCP][ITS#140600203] When change LAN subnet IP address, VMG will remove static DHCP configuration that IP exist in original subnet.
2. [WAN][ITS#140501200] Support to configure concurrent bridge and routing mode with same VPI.VCI or VLAN ID in single PVC.

[FEATURE MODIFIED]

1. [3G][ITS#140600206] 3G Pin is lost when you reboot the VMG.

[BUG FIX]

1. [Firewall][ITS#140600093,140501023] Set firewall to low level/disable, then reboot VMG and SIP can't registered.
2. [Firewall][ITS:# 140300667] LAN services exposed to WAN issue.
3. [DHCP][ITS#140600191] Can't enable DHCP Relay. In current design, If want to enable

DHCP Relay need to disable nat of all WAN configuration but try to disable nat in all of WAN still can't enable DHCP Relay.

4. [Backup Configuration][ITS#140500036] Backup Restore issue. The Log Settings page in the GUI, then change setting and clicked on Apply, backed up the configuration, factory reset the VMG. Restored the backed up configuration - Saw that the log settings were back to default.
5. [Wireless][SPRID# 140527483,140626498] The WPS can't work.
 - A. Mark the wps field and apply, the mark of the field will disappear. Already fix in trunk
 - B. The PBC and PIN methods can't work.
6. [GUI][SPRID#140624316] Password issue as bellow cases:
 - A. Incorrect wording in change password page in login page, it show "Change password... The password must contain 6 to 256 characters". But only support 20 characters.
 - B. The valid password length in "Change password page" and "user account page" is difference. Login through admin/1234, and change the password to 1234567890123456789a by Change password page, it works well, then, change the password to12345a by Maintenace page, it can be applied successfully, but the password doesn't change.
7. [VOIP][SPRID#140627621,140627622] The Unattended/ attended call transfer doesn't work.

Modifications in V1.00(AAKL.5)b4

[FEATURE ENHANCED]

1. [VOIP] Add country code for SLOVAKIA & SLOVENIA.
2. [VPN] Support PPTP.
3. [TR-064] Support Multimedia Auto Provisioner.
4. [MobileApp] Configure parental control too slow.
5. [GUI][ITS 140500040] When user configures the static DHCP, then alert a message to note user to renew device's IP.

[FEATURE MODIFIED]

1. [Wizard] Remove time zone setting in quick start wizard.

[BUG FIX]

1. [LAN][ITS 140401095] CPE create the same IP subnet. If change the LAN host address

to 192.168.2.1/24. Then create new interface group and found the LAN host address also be 192.168.2.1/24.

2. [LAN][ITS 140401095] WAN side change IP subnet, CPE redirect to URL of LAN.
Access web GUI from WAN, then change LAN host address and CPE will redirect url to LAN as 192.168.1.1.
3. [GUI][ITS 140500032] Spelling and Grammar mistakes.
4. [MobileApp] Wan interface disappear after auto hunt. Use app to do vc auto hunt ppp WAN, the user name & password will be changed.
5. [VOIP][ITS 140400476] No Audio when doing *70, , same for *85.
6. [TR69] TR069 overloaded TCP session size for HTTPS, when use https via tr69, the packet size were 10x of http.
7. [WAN] WAN interface disappear after vc auto hunt. When finish vc auto hunt procedure, sometime the wan interface disappear.
8. [Configuration][ITS 140500036] Backup Restore issue – The configuration of Log setting page can't be saved in backup configuration from GUI. In current, we only support supervisor account to save Log setting.
9. [GUI][ITS 140500043] When using IE10 and you log into the GUI of the VMG8924 the GUI's first page is not displayed correctly, when opening any other page in the GUI the page is displayed correctly

Modifications in V1.00(AAKL.5)b3

1. [ITS :140302182] adjust Italy's dial tone.
2. [ITS :140400531]NAT problem :

Topology:

Setup is Laptop---VMG8924--HUB--Switch----internet



<TEST case1>

Step1: Reset to default romfile file

Step2: Configuration WAN setting for Ethernet.

Step3: Change subnet to 192.168.10.1 from 192.168.1.1

Step4: At this time, Monitor PC will receive the trace 192.168.10.1...etc(see attached trace)

<TEST case2>

Step1: Reset to default romfile

Step2: Configuration WAN setting for Ethernet.

Step3: Change subnet to 192.168.10.1 from 192.168.1.1

Step4: plug out/in WAN cable

Step5: At this time, Monitor PC will receive the trace 192.168.10.1...etc(see attached trace)

<TEST case3>

Step1: Reset to default romfile

Step2: Configuration WAN setting for Ethernet.

Step3: Change subnet to 192.168.10.1 from 192.168.1.1

Step4: Release/renew WAN ip address in WEB GUI.

Step5: At this time, Monitor PC will receive the trace 192.168.10.1...etc(see attached trace)

Modifications in V1.00(AAKL.5)b2

[FEATURE ENHANCED]

1. [TR69] Add a Landing Page and set by TR069.
2. [GUI] Display the Serial Number to the status page.
3. [ROM-D] Support supervisor can save/clean configuration to ROM-D via GUI in Configuration ROM-D page.
4. [CLI] support wan edit command to Enable/Disable VLAN tag
 - wan edit servicename <name> [--vlan <enable>]
 - wan edit servicename <name> [--vlan <vlan id>]
 - wan edit servicename <name> [--8021pq <0~7> <vlan id>]
5. [CLI] provide CLI command to enable or disable the DHCP server assign LAN IP by mac hash method for first link PC . If local side PC already be linked on CPE then need to reboot CPE active this feature.
dhcpmachash <enable|disable>
dhcpmachash show
dhcpmachash help
6. [CLI] Use CLI command to disable the WLAN and WPS physical button
buttondisable <1|0>
buttonenable show
7. [DHCP] Add DHCP OPTION 66 and user can set DHCP OPTION 66 value in GUI
(Home Networking->TFTP Server Name)

8. [GUI] Display the static route rules on the Routing page which is learning from DHCP option 121.
9. [DSL] Support DSL Modulation, Bitswap and SRA via GUI
10. [WAN] Support a concurrent WAN automatic create by Broadband WAN interface Add & Edit.
11. [USER ACCOUNT] Modify User Configuration page.
 - A. GUI can show account list.
 - B. Supervisor level can show/add/modify/delete administrator/user level accounts.
Administrator level can show/add/modify/delete administrator/user level accounts.
User level can show/add/modify/delete user level accounts.
 - C. Account can set retry time limit and idle time limit.
12. SNMP support ADSL MiB(.1.3.6.1.2.1.10.94.1.1).
support adslMibObjects list:

- adslLineTable	.1.3.6.1.2.1.10.94.1.1.1
- adslAtucPhysTable	.1.3.6.1.2.1.10.94.1.1.2
- adslAturPhysTable	.1.3.6.1.2.1.10.94.1.1.3
- adslAturChanTable	.1.3.6.1.2.1.10.94.1.1.5
- adslAturPerfDataTable	.1.3.6.1.2.1.10.94.1.1.7
- adslAturIntervalTable	.1.3.6.1.2.1.10.94.1.1.9
- adslAturChanPerfDataTable	.1.3.6.1.2.1.10.94.1.1.11
- adslAturChanIntervalTable	.1.3.6.1.2.1.10.94.1.1.13
- adslLineAlarmConfProfileTable	.1.3.6.1.2.1.10.94.1.1.15
13. Transaction ID enhancement, to integrate the MAC address along with transaction ID
How to check a Transaction id has WAN MAC:
Ex: CPE WAN MAC of interface is "C86C87A87A5C".
We can get the Transaction id of DHCP packet is "7c57b26c"(hex).
We can change the Transaction id(7c57b26c) from hex to dec(2086122092).
Then, we can get "122092" of the "2086122092".(122->7A, 092->5C)
Finally, "122092" will be changed to "7A5C" of CPE WAN MAC.
14. [ITS# 140400237] Use CLI command to disable the WLAN and WPS physical button.
15. Support DDNS.
16. Update the 3G WWAN package to 1.05
17. Can set default route in static route page.
You can setup rom file to enable this feature
`<X_5067F0_CustomizationFlag>`
`<X_5067F0_Parameter1>4096</X_5067F0_Parameter1>`

</X_5067F0_CustomizationFlag>
18. [RIP] zebra support list command.

e.g.

```
redistribute kernel route-map test
access-list 1 deny 0.0.0.0
access-list 1 permit any
route-map test permit 1
match ip address 1
match interface br0
```

19.

[FEATURE MODIFIED]

1. [Parent control] Parent control access schedule Time (Stard-End) rules table max list number is 3.
2. [GUI] DNS Entry Name can use ":".
3. OUI should be capital letters.
4. [GUI] Support Special characters `~!@#\$%^&*() for WpaPsk
5. [GUI] Auto-logout timeout change from 30s to 600s.
6. Support IPSec responder.
7. If user save configuration to ROM-D, Save button of Login Prividge will disappear.
8. [ITS# 140500034] Modify 3G Pin code text type to be password.
9. [GUI] Update memory usage info in GUI status page.
10. [ROM] Add the value of DHCP option 66 (URL: <http://10.36.1.3:8081/>) by default for **Entel Chile**
11. [IPSec] Limit the IPSec VPN Tunnel number to 2.

[BUG FIX]

1. The Ping and Trace Route can work by using the URL.
2. [ITS: #130800120] tr64 don't reply msearch not belong to it.
3. [ITS: #131100863] When do interface group for LAN, it also need to update its qos classInterface.
4. [ITS #131004714][IPv6] Sometimes fail to set LAN ipv6 address.
5. The Parental Control should can't block the websites while the service name choose HTTP and HTTPS.
6. Fix the WEBGUI usually shows "400 Bad request" by Firefox browser.

7. [SPRID 140414580] We couldn't ping the DUT from lan when Deny Ping Response is enabled.
8. [GUI] Fix access GUI with https is too long in the Chrome browser.
9. DHCP crash at LAN side.
10. [ITS# 140400873, 140105278][VOIP] Fix IOP problem with Asterisk SIP server.
11. [Wireless] For WIFI country code EU/60 in driver version 6.30.163.23.cpe4.12L06B.1 there are channels 149+ in 5G band
12. [PPPoE] Send a PADT packet with old session id before establish a new PPP connection.
To Fix 1. Unplug dsl line will not send PADT to terminate ppp session.
2. Unplug power line will not send PADT to terminate ppp session.
13. [ITS# 140500032][GUI] Spelling and Grammar mistakes
14. [ITS#140302469][DHCP] STB can't get IP, this a DHCP Discovery message issue.
15. [ITS# 140204343][TR69] Set privilege from acs server fail
16. [ITS# 131004911][WAN] Improper routing behavior issue.

Modifications in V1.00(AAKL.5)b1

[FEATURE ENHANCED]

1. [ITS: #131202726] Add more WiFi detail information.
2. [ITS: # 131006236] Syslog hostname has v4 as default instead of v6.
3. [ITS: #140100539] Add wireless channel scan for 5G. Note: Not support 40/80 MHZ yet.
4. Interface Grouping with VLAN group.



ES of interface

Please refer to ES: grouping with VLAN

5. Mobile APP.

Include fellow function:

1. Host information
 2. Parental Control
 3. WiFi Setting (include Guest WiFi)
6. [CLI] For Mobile APP Network Pioneer, add bellow CLI commands

[FEATURE MODIFIED]

1. Change Trust domain behavior.
 1. With "Multi WAN + Trust domain" enable/disable option

2. Will disable(grey) WAN enable option while “Trust domain” is enabled.
2. Fix policy Route.
[ITS: #140301470] DHCP conditional service.
3. Enhance the changing LAN IP behavior of VMG8924, DO NOT reboot device after changing LAN host IP.

[BUG FIX]

17. [ITS: #140200568] [QOS] Bandwidth configuration issue.
Symptom:
 1. Cannot add a LAN queue.
 2. Add a LAN queue and set up the class, the Qos downstream doesn't work.
18. [ITS: #140201497, #140203048, #140300295] When TR069 setup Multi-WAN mode, but data comes out of right interface but uses source ip from other interface.
19. Hide FXS port on virtual device page if the product does not support VoIP.
20. Opposite USB1 and USB2 on GUI.
21. [ITS: #140100494] Device can't set 5G WLAN channel.
22. [ITS: #140100503] Wrong sideband description on 5G GUI.
23. [ITS: #140100511] DHCP pool will be reset after disable then enable DHCP.
24. [ITS: #140100514]**[Thailand]** Add Dynamic DNS Server.
25. [ITS: #140100551] The internet LED always keeps RED in adsl mode.
26. [ITS: # 140100947] Dashboard sometimes show error value.
27. Wireless status will always display "My SSID" and without other information even if already modified on the GUI
28. PPPoE's username on Wizard page will display "(null)", even if already connected up
29. If don't support VoIP, please remove SIP Registration Status on web GUI
30. LAN IPv6 IP Address will over cross the filed
31. [CLI Command] USB LED will not work
32. The Rate of 2.4GHZ WLAN always show 54M in the status page
33. Parental control profile cannot be added via IE.8 browser
34. WAH1000 new PID/VID support
35. [ITS: #140203048] CPE take 2 IP-addresses from DHCP, when doing VLAN autohunt on VDSL.
36. [ITS: #140203048] VOIP on VDSL not working. When I configure the CPE to use PTM the CPE cannot SIP register. If I setup the CPE on an ADSL line and configure the CPE accordingly the SIP can register correctly.
37. [ITS: #140203048] TR-069 does not work over MultiWAN.

38. [ITS: #130804887] Deny Ping Response
 - step:
 1. make sure CPE get WAN IP (I used EtherWAN)
 2. ping to CPE's WAN IP, CPE no response
 3. access to Firewall> DoS, enable "Deny Ping Response" then disable it
 4. ping to CPE's WAN IP, CPE responded
39. [ITS: #140105286] In PTM mode, when traffic mirror is enabled, device will hang on and reboot.
40. [ITS: #140204248] IOP issue with old Mac OSX 10.6.8.
41. [ITS: #131201237, #140201118] Interface collisions & error count is too high.
42. [ITS: #140103717] No IPv6 when v6 firewall is disabled.
43. [ITS: #140104552] STB first packet goes through DATA WAN
 - Symptom:
 1. Go to web page "interface grouping"
 2. Enter filter page, bind option 60 with IPTV WAN
 3. Connect STB at LAN side, STB send DHCP packet with option 60, and get IP, and http packet from STB goes through DATA WAN
 4. Should goes though IPTV WAN
44. [ITS: #140200732] WPS button on enable 2.4Ghz, should enable both 2.4G/5G.
45. [ITS: #140204162] Random PC cannot ping a host. 3 LAN clients connect to CPE and each client to ping 3 same public IP at the same time, after 2-3 hours and found the random client occurs ping loss in random ping traffic.
46. [ITS: #140301470] MSTV freeze sometimes on VDSL/ADSL.
47. Sometime write configuration to flash will fail.
 - [ITS: #140400463] Do configuration provisioning via ACS server.
 - [ITS: #140400465] reset to default via GUI fail.
48. Prevent access of backup settings directly, e.g. `http://<CPE IP>/configuration-backupsettings.conf`, without login.
49. Modify admin password as clear text in configuration file and upgrade configuration from GUI. The new password will .
- 50.

Modifications in V1.00(AAKL.4)C0

Base on V1.00(AAKL.4)b3 to release V1.00(AAKL.4)C0

Modifications in V1.00(AAKL.4)b3

[BUG FIX]

1. [TR-069] FW upgrade fail via TR-069.

Modifications in V1.00(AAKL.4)b2

[FEATURE ENHANCED]

4. Upgrade the modem code to A2pv6F039i.

[FEATURE MODIFIED]

1. Change WiFi country code setting to EU/60. And make sure all DFS solution has been implemented.(Check WiFi country code by CLI command : wlctl country)
2. [ITS: #140105131] : Fixed , After configure PPP connection then CPE no response to ACS issue and response statuse change to 1.
3. Change the behavior(ACS upload rom-d without change the current setting).

[BUG FIX]

1. PPPoA max MTU should be 1500.
2. Include **[India TATA]** Device is taking very long time to login using HTTPS.
3. [ITS: #140202892] Fixed Change the admin passwd to quick1234 will be error.(FTP upgrade the config file command as : put D:\(FILE NAME).conf)
4. USB LEDs will lit when no USB devices plugged in under specific condition
5. LAN hosts can receive each other's Internet traffic
6. GUI MTU size should be automatically adjusted to 1492 when selecting PPPoE mode.
7. WAN host can download DUT config file by HTTP with no authentication.

Modifications in V1.00(AAKL.4)b1

[FEATURE ENHANCED]

5. Upgrade the m to 6.30 RC163.23.

[FEATURE MODIFIED]

1. [ITS: #140204368] :Reset button :1-9 sec : no action. After 10 sec: system back to

factory default and reboot.

2. Remove the strong passwords. Change the admin password unnecessary alpha character + number character.

[BUG FIX]

1. [ITS: #140105131] : Fixed , After configure PPP connection then CPE no response to ACS issue
2. [ITS: #140201830,#140200332] : Fixed , upload config (clear text passwd) from TR069 or Web Gui or FTP then the admin passwd or ppp passwd or TR069 passwd will be error issue.
3. [ITS:#140202892] : Change the admin passwd to quick1234 will be error.
4. CHT attack issue , Block DNS query from WAN side no matter firewall is enabled or not.
5. [ITS:# 140206075] : LAN IPV6 Address will over cross the field in status and routing table page.
6. [ITS:# 140206073] : **[Thailand]** PPPoE's username on Wizard page will display "(null)", even if already connected up.
7. [ITS:#140210218] : When 3G WAN is up, internet LED is off. Reason: 3G Internet LED not support WAN_IP_CONN. Solution: let 3G Internet LED support WAN_IP_CONN.
8. [ITS:#140201871] : **[Thailand]** IPSec VPN menu still exists (Use flag to control).
9. [ITS:#140102232] : Problem page error (408 Request Timeout).
10. [ITS:#] : Wireless Guest SSID and Home Guest no internet access.

Modifications in V1.00(AAKL.3)C0

6. Base the V1.00(AAKL.3)b3 to Release V1.00(AAKL.3)C0
- 7.

Modifications in V1.00(AAKL.3)b3

[FEATURE ENHANCED]

8. Parental Control : (1) Add more access-periods (Max. 3) . (2) Apply same PCP to several clients (Max. 5).
 -

[FEATURE MODIFIED]

1. In original design, press the reset button more than 25sec to erase ROM-D.

Change design to disable the erase rom-d function in CFE via HW reset button.

And also upgrade cfe version to V1.63.

2. Sideband description on 2.4G GUI.

•

[BUG FIX]

1. ITS: 140200569 , The root cause is disable the Ethernet WAN and then enable it. The speed will keep fix 100M. (1)When we fix 1000M on Ethernet wan and then disable it. Make sure Ethernet WAN link down. (2) Enable Ethernet WAN, it will fix on 100M. After reboot, Ethernet WAN can back to 1000M.
2. ITS: 140103717, No IPv6 traffic LAN to WAN when v6 firewall are disabled.
3. ITS: 140104452, FTP upload can't work in Linux environment. Condition: (1)using linux command "ftp 192.168.1.1" to connect with CPE ftp server.(2)use command "put ras.bin" to upload FW to CPE(3)CPE without accept any FW data package. Expectation:(1)When use put command to upload image, the CPE should receive data packages.(2)Then use command "bye" to start upload FW process.
4. Fixed : (1)Go to "Network Setting > QoS > Class Setup" webpage by IE browser, you can see the Edit and Delete icons are misplaced.(2)Go to "Network Setting > QoS > Policer Setup" webpage by IE browser, you can see the background are cut.(3)Go to "Connection Status > Status" webpage by IE browser, in "Registration Status" section, you can see the "UnRegister" button lose right-side line.
5. [UK] Interface group leaks : If interface group is setting at LAN1 then LAN2~4 packet should be not sent to LAN1 port.

Modifications in V1.00(AAKL.3)b2

[FEATURE ENHANCED]

6. Support ACL to select IPv6 LAN device. (not support static IPv6).
7. Description: consider Support Trust domain for IPv6 .Condition: when set trust domain IP, it is set as ACCPET for INPUT chain of iptables, but we don't consider about IPv6.
8. Support Concurrent WAN for routing and bridge mode with same PVI/VCI.
9. Support "Mode Switch" 3G module as VMG1312-B10A with Fwid:AAJZ0C0
10. Support characters: "@" , "-" , "." in SIP Account field let CPE to apply.

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[FEATURE MODIFIED]

1. Interface group behavior, WiFi/WAN disabled & enable still keep in original group.
(1)Create a new Interface group with WiFi interface.(2)Disable WiFi interface, then

- enable. (3)The interface will restore to default group.
2. Replace CPE All 'MitraStar' string to 'ZyXEL'.
 - 3.
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- [BUG FIX]**
1. ITS:131104543, 131100434 (1) IGMP flooding when igmp snooping mode is standard ,(2) IPTV can not work in igmp proxy but VLC player can do it.
 2. ITS : 131100747 ,Symptom: WAN PC can ping to CPS's LAN interface with bridge WAN.(1)Setup CPE WAN to bridge mode.(2)Setup WAN PC's address in the same subnet(3)WAN PC ping CPE's LAN interface, then get ping response.
 3. ITS: 130804413 Symptom: [DHCPv6c] DHCPv6 renew does not work like it should.(1)only enable IA_NA, after dhcp6c send renew and get reply, it resend solicit.(2)enable both IA_NA and IA_PD, dhcp6c send renew and get reply, it send release repeatedly
 4. Symptom: (IOP issue) Ping & TraceRoute in Diagnostic can't work on Goole Chrome only.(1)use Google Chrome, login WebGUI, click status, but it doesn't show anything.(2)use Google Chrome, click Diagnostic page, get into ping and traceroute,it doesn't work.
 5. ITS: 131104896, Description: DHCPv6 Requested Option code: DNS recursive name server (23) has repeat for 2 times. Symptom: there are 2 option 23 in one DHCPv6 request packet.
 6. ITS: 130903252, Description: press WAN IP release on Web GUI, DHCPv4 client won't send "DHCP RELEASE" to DHCP server .Symptom: press WAN IP release on Web GUI, DHCPv4 client won't send "DHCP RELEASE" to DHCP server.(1)enter GUI status page.(2)click "release" button for "IPv4 Address" in "WAN information" column.(3)capture packet from packet sniffer tool, dhcpc doesn't send RELEASE packet to DHCP server.
 7. Symptom: Wrong string in Wireless webpage. Go to "Network Setting > Wireless > General" webpage, in "More Secure" field,click more, you can see the wrong typo "Encyption", should be "Encryption".
 8. SPRID: 131024357, After add one bridge wan and one route wan with the same VLAN id, DUT will repeat reboot.
 9. SPRID: 131022286, Plug USB flash drive to CPE, after reboot CPE, USB flash drive sometimes is undetectable by CPE .
 10. VPN Monitor Wording. "Connecting" change to 'Connected' and "Disconnecting" change to 'Disconnect'.

11.

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Modifications in V1.00(AAKL.3)b1

1. Base on V1.00(AAKL.2)b1 to release V1.00(AAKL.3)b1
2. [FEATURE ENHANCEMENT] Add some CLI commands. (pppoectl, firewall, wlanctl, route, lan, dmz and passwd)
3. [FEATURE ENHANCEMENT] The CLI LAN config command need to support generate DHCP subnet IP automatically.
4. [FEATURE ENHANCEMENT] Block it from CLI with web GUI if DMZ IP same LAN IP.
5. [BUG FIX] [ITS 131101298] If MGMT and DMZ work in same time then MGMT will fail.
6. [BUG FIX] [ITS 131002333] GUI can't display log information with specified category.
7. [BUG FIX] [ITS 131002949] Can't disconnect VPN from USG remote site.
8. [BUG FIX][ITS 131018118] If use ATSN to change SN and use lowercase, when use ATSH to check, SN will display lowercase.
9. [Bug Fix][SPRID 131018077] "Bootbase Version" are different between "Debug mode" and "CLI command".
10. [BUG FIX][SPRID 131018114] WPS process bar display issue.
11. [BUG FIX][SPRID 131018117] User can't find the radio button of Enable in WPS page. (IE6/7/8)
12. [BUG FIX][SPRID 131021199, 131106389] After upload the configuration to device, one of Dynamic DNS setting is lost.
13. [BUG FIX][SPRID 131021206] Fix default value from Mitrastar to ZyXEL in data-model.
14. [BUG FIX][SPRID 131022288, 131022267] Enable or disable "Immediate Dial Enable" function on anyone "SIP Service Provider", it will also enable or disable "Immediate Dial Enable" function" to all "SIP Service Provider" at the same time.
15. [BUG FIX][SPRID 131024393] Enable "File Sharing Services" function and add a user account. Then reboot CPE, CPE happen repeat reboot.
16. [BUG FIX][TR069] Tr069 will not enable in some conditions. if WAN is plug-in after CPE boot up, tr069 will not be enabled
17. [BUG FIX][TR069] When Connect with ACS server, the tr69c will crash.
18. [BUG FIX][TR069] Fix memory overwrite problem.

19. [BUG FIX][TR069] Fix wrong comparison statement
20. [BUG FIX][TR069] Fix incorrect fprintf argument
21. [BUG FIX][TR069] Cannot set Multi_WAN.
22. [BUG FIX][TR069] After download file, some parameter values are always zero.
These parameters are:
InternetGatewayDevice.DownloadDiagnostics.TestBytesReceived
InternetGatewayDevice.DownloadDiagnostics.TotalBytesReceived
InternetGatewayDevice.DownloadDiagnostics.X_5067F0_Result.1.TestBytesReceived
InternetGatewayDevice.DownloadDiagnostics.X_5067F0_Throughput
InternetGatewayDevice.DownloadDiagnostics.X_5067F0_TotalBytesReceivedUnderFullLoading
23. [BUG FIX][SPRID 131018118] If use ATSN to change SN and use lowercase, when use ATSH to check, SN will display lowercase.
24. [BUG FIX] add PHHONE1 and PHONE2 on/off when enter cmd -> sys ledctl all 1/0.
25. [FEATURE ENHANCEMENT] Support IPSec log in GUI.
26. [FEATURE ENHANCEMENT][SPRID 131018119] TE command "sys btt 1", the output can show on telnet
27. [BUG FIX][ITS 131004175] Use long length FW id to upgrade FW, CPE will crash in first boot up.
28. [BUG FIX][SPRID 131025508] Bandwidth of Wireless Network Setup on Wireless page should be modified.
29. [BUG FIX][ITS 130804887] The default of "Deny Ping Response" is disabled, but user can't ping CPE from WAN over IPv6 network.
30. [BUG FIX][ITS 130903720] CPE Crash When Have IPTV Traffic in ADSL ATM Mode.
31. [BUG FIX][ITS 131000700] IOP issue between BCM63168 GPHY/BCM53124S Ethernet port and Genexis FiberXport.
32. [FEATURE ENHANCEMENT][ITS 130700725] VOIP over IPv6.

Modifications in V1.00(AAKL.2)b1

33. Base on V1.00(AAKL.1)b2 to release V1.00(AAKL.2)b1
34. [FEATURE ENHANCEMENT] Always try to reconnect PPPoE even authentication fail
35. [Bug Fix] Open web status page fail when ppp connection fail.
36. [FEATURE ENHANCEMENT] Support concurrent VDSL wan. (One bridge wan and one route wan with the same VLAN id.)
37. [FEATURE ENHANCEMENT] Serial number format change. Ex:
VMG 8324-B10A

sys-serial-no : "S130Y11021794 8324 100AAKL0b2"

VMG 8924-B10A

sys-serial-no : "S130Y11021794 8924 100AAKL0b2"

38. [Bug Fix] When setup DNS6 from ISP, GUI can't display DNS value.
Condition:
 - A. Go to Home Network Setting/Home Networking/LAN Setup page.
 - B. Enable IPv6 and select IPv6 DNS Value server to "From ISP".
 - C. Connect with WAN and re-flash LAN.
 - D. DNS IP address still empty.
39. [Feature Change] Dual stack enable as default on all WAN connection.
40. [Feature Change] DHCP option 43 enable as default on all WAN connection.
41. [Feature Change] By default, use static supervisor password as for EU generic.
42. [Bug Fix][ITS 130804887] The default of "Deny Ping Response" is disabled, but user can't ping CPE from WAN.
43. [FEATURE ENHANCEMENT] Support wireless STA connect/disconnect to AP log information.
44. [Bug Fix] Remove UPS information from GUI.
45. [FEATURE ENHANCEMENT] Add more wireless information for the lan device about SSID, Link quality, Connect type.
46. [Bug Fix] When Connect with ACS server, the tr69c will crash.
Condition:
 - A. Enable tr69 and connect with ACS.
 - B. In console side, we can find tr69c core trace message.

Modifications in V1.00(AAKL.1)b2

47. Base on V1.00(AAKL.1)b1 to release V1.00(AAKL.1)b2
48. [Bug Fix][ITS 130701418] The ACL rule will disappear from GUI when the firewall is disabled. And then enable the firewall, the ACL will return in GUI
49. [Bug Fix][ITS 130800697] DSL uptime counter display error.
50. [FEATURE ENHANCEMENT][ITS 130605250] Add separate firewall IPv4 and IPv6 control Flag.
51. [FEATURE ENHANCEMENT][ITS 130800636] Enable ADSL over PTM as factory default setting.
52. [FEATURE ENHANCEMENT][ITS 130702735] Add more wireless information for the LAN device about SSID, Link quality, Connect type.

Modifications in V1.00(AAKL.1)b1

53. Base on V1.00(AAKL.0)C0 to release V1.00(AAKL.1)b1
54. [Bug Fix][SPRID 121217134] Add a new interface group that select LAN interface and none WAN interface can create successfully.
55. [Bug Fix][SPRID 121217135] There are redundant wireless LAN interfaces on interface group page.
56. [Bug Fix][SPRID 121218221] WLAN LED will not off, when WLAN configure disable From GUI and HW button.
57. [Bug Fix][SPRID 130225373] In the Wake on LAN page, the IP address column is redundant.
58. [Bug Fix][SPRID 130227535] Use tftp client tool to put FW to device >> Failed.
59. [Bug Fix][SPRID 130227537] Rate Limit of WAN configuration can't work again, when user modify "Rate Limit".
60. [Bug Fix][SPRID 130412337] LAN PC connect to DUT and will get IP address randomly.
61. [Bug Fix][SPRID 130415493] Wireless's LED behavior is not correct.
62. [Bug Fix][SPRID 130416648] LAN PC play the MLD video, after 2-3 minutes, DUT will reboot.
63. [Bug Fix][SPRID 130417754] When change security to WEP in 802.11n mode, GUI pop out message issue.
64. [Bug Fix][SPRID 130419060] Press HW WPS button, then disable WPS from GUI, 5G LED still flash (orange).
65. [FEATURE MODIFICATION][DHCP] Support DHCP Options 61 on WAN side.
66. [FEATURE MODIFICATION][WEB REDIRECT] Using DUT index page to replace troubleshooting pages.
67. [FEATURE MODIFICATION][ITS 130500999] Fixed MAC feature. Use parameter MacIndex to control the MAC allocated to wan interface.
68. [FEATURE MODIFICATION][ITS 130503361] Allow each wan interface has independent static DNS servers.
69. [FEATURE MODIFICATION][ITS 130602748] Add VOIP tone setting for Austria.
70. [FEATURE MODIFICATION][VLAN] Support VLAN Mux on ATM PVC.
71. [FEATURE MODIFICATION][ITS 130603320] Support clean ROM-D via ftp.
72. [FEATURE MODIFICATION][ITS 130405196] Show Internet connection up only when default gateway interface get IP. Enabled if
(InternetGatewayDevice.X_5067F0_CustomizationFlag.X_5067F0_Parameter1 &

- 0x00000001) = 1
- 73. [Bug Fix][ITS 130504207] V6 auto renew dhcp6c won't renew when receive more than one reply message.
 - 74. [Bug Fix][ITS 130401093] Dhcp6c will re-init if receive more than one reply message.
 - 75. [Bug Fix] LAN PC can't ping to WAN (IPv6) when firewall is disabled.
 - 76. [FEATURE MODIFICATION][ITS 130502491] In Maintenance->Time page, Daylight Saving setting, Order field. Change Fifth to Last.
 - 77. [FEATURE MODIFICATION][ITS 130503411] Enhance the status page loading speed.
 - 78. [FEATURE MODIFICATION][ITS 130503755] Change the serial number format shown on COE
 - Original: "SerialNumber"
 - Change to: "SerialNumber ModelName FirmwareVersion"
 - 79. [FEATURE MODIFICATION][COUNTRYCODE] Close 11ac DFS band for US (FF) & EU(E1) region.
 - 80. [Bug Fix][SPRID 130301048] MAX NAT session per host can't be limited.
 - 81. [Bug Fix][SPRID 130227536] Use ADSL WAN to play IGMP >> Lag.
 - 82. [Bug Fix][SPRID 130220040] Passphrase type couldn't be set.
 - 83. [Bug Fix][SPRID 121219374] Wireless can't pass the PQA criteria, please check the attached file.
 - 84. [Bug Fix][SPRID 121015894] Port trigger can't work when set port range.

Modifications in V1.00(AAKL.0)C0

- 85. Base on 1.00(AAKL.0)b2 to release V1.00(AAKL.0)C0

Modifications in V1.00(AAKL.0)b2

- 86. Base on 1.00(AAGW.0)b5 to release V1.00(AAKL.0)b2
- 87. Change Vendor Name to "ZyXEL Communications Corp.".
- 88. [BUG FIX] [SPRID 130415450] Diagnostic can't "Ping/TraceRoute/Nslookup" ipv6 domain address.
- 89. [BUG FIX] [SPRID 130416621] After DUT use .w to upgrade FW, user can't use account (zyuser/admin) to login FTP.
- 90. [BUG FIX] [SPRID 130415473] 5th Ethernet Port can't work
- 91. [BUG FIX] [SPRID 130412360] [Power Management] Wireless 5G LED didn't OFF by

power management.

92. [BUG FIX] [SPRID 130415492] [Remote MGMT] Type "sys atsh " via ssh response error.
93. [BUG FIX] [SPRID 130412361] [3G]LAN PC still can't access Internet after 3G connect up when DUT has 2 WAN connections.
94. [BUG FIX] [SPRID 130416649] [GUI] The information about 2.4G and 5G are not correct in the Connection Status page(Interface Status) .
95. [BUG FIX] [SPRID 130415453] When system Log of Category select "DHCP Server", GUI (Log) can't show any about DHCP Server information.
96. [BUG FIX] [SPRID 130415451] Diagnostic Address set ";" + "sh command" >> Diagnostic can do sh mode active.
97. [BUG FIX] [SPRID 130422139] DUT can't get Provision Code from DHCP option 43.
98. [BUG FIX] [RD Internal][ADSL] Rate Limit of WAN configuration can't work again, when user modify "Rate Limit"
99. [BUG FIX] [RD Internal] (Power Management) LED behavior is wrong after reboot when DUT enabled power management.
100. [BUG FIX] [RD Internal] there are two "Host Name" fields in USB Service > File Sharing for Google Chrome and Firefox.
101. [FEATURE ENHANCEMENT] Support tr69 to update romd.
102. [FEATURE MODIFICATION] [RD Internal] modify timer of reset to default button to trigger in CFE from 20s to 10s.
103. [FEATURE MODIFICATION] modify default config, set WLAN 2.4G default bandwidth to 40MHz.
104. [FEATURE MODIFICATION] [HW][WLAN] update 5G SROM for CPK issue.
105. [FEATURE MODIFICATION] [HW][WLAN] update 2.4G and 5G con-current regulatory power table limitation for CE/FCC to EU/60 and Q1/60.
106. [FEATURE MODIFICATION][RD Internal] WLAN auto generate SSID for 5G to ZyXELXXXXXX_5G (XXXXXX is the last 6 mac address).
107. [BUG FIX] [SPRID 121214980] VDSL bridge throughput can't pass PQA criteria (Run 64 to 1518 continuous).

Modifications in V1.00(AAKL.0)b1

108. Base on 1.00(AAGW.0)b4 to release V1.00(AAKL.0)b1
109. Change Vendor Name to "ZyXEL Communications Corp.".

Default Settings in V1.00(AAKL.7)K0

Please refer to V100AAKL7K0.rom for more detail. It can be viewed by text editor.

Recommend to use XML parser to get well organization result.

1. Username and password:

- (1) admin/1234
- (2) zyuser/1234

2. GUI configuration: <http://192.168.1.1/>

3. How to enter sh mode: enter sh in main menu.

4. Enable Deny Ping by default.

5. Change ACS URL to

https://axess.tr069.co.za:7549/rps/CPEManager/CPEs/Auth_Basic/genericTR69.

Public Domain Software Announcements

The following public domain software are used in this firmware release:

- MIPS Linux kernel, version 2.6.30
<http://www.linux-mips.org> or <http://kernel.org>
- Bridge-Utils
<http://bridge.sourceforge.net>
- BusyBox 1.0.0 toolset
<http://www.busybox.net/>
- Dproxy: dproxy-nexgen
<http://dproxy.sourceforge.net>
- ebtables 2.0.6
<http://ebtables.sourceforge.net>
- bftpd 1.0.24
<http://www.bftpd.org/>
- iproute2 iproute2-2.4.7-now-ss020116-try.tar.gz
<http://www.linuxgrill.com/anonymous/iproute2>
- iptables-1.3.8
<http://www.netfilter.org>
- udhcp 0.9.6
<http://udhcp.busybox.net/>
- zebra 0.93a
<http://www.zebra.org/>
- ppp 2.4.1
<http://www.roaringpenguin.com/pppoe>
- Ssh server: dropbear v0.46
<http://matt.ucc.asn.au/dropbear/dropbear.html>
- openssl: openSSL library v0.9.7f
<http://www.openssl.org>
- Dnsmasq: 2.48
<http://www.thekelleys.org.uk/dnsmasq/>
- Ssmtp : 2.62 GPLv2
<http://packages.debian.org/lenny/ssmtp>
- Dhcpv6
<http://sourceforge.net/projects/wide-dhcpv6/>